

# Datasheet GP12300 & GP24300

## 12/24VDC-230VAC 300W Modified sinus inverter

Modified sine wave inverter from Genius is a product designed for the leisure market. It is compact and lightweight and ideal for mounting in tight spaces, such as vehicles and caravans. With 300W continuous power, these models are ideal for use with laptop, digital camera, game console and other small electronic devices.



The advantage of using this type of inverter is definitely the price and weight. Genius is one of the best brands in the market at this price level, and they are therefore one of the most popular products on the market.

Modified sine wave is also called trapezoidal or square wave. This means that this type of inverter does not provide a pure sine wave like our main power available at home and as we know from more expensive inverters. As most hobbyists are using products which are not critically sensitive or have inductive and offset loads, the limitations by using a modified inverter are therefore of minor nature. The Genius inverter is electronically isolated and has soft start power.

Specifications	
<b>Dimensions L/W/H</b>	190 mm x 91mm x 58mm
<b>Net. weight:</b>	1,1 kg
<b>Connecting to 12V DC:</b>	Cigarette plug and alligator clip included
<b>Connecting to 230V AC:</b>	Delivered with one Schuko socket
<b>Alarm and thermal shut down:</b>	At 60° +/- 5° degrees Celsius
<b>Short-circuit protection</b>	Yes



Model specifications	GP12300	GP24300
<b>DC Input Voltage</b>	10VDC-15VDC	20VDC-30VDC
<b>Continuous power output</b>	300W	300W
<b>Output power surge</b>	1000W	1000W
<b>No load current draw</b>	<0.3A	<0.3A
<b>DC Input fuse</b>	20A	10A
<b>Alligator clip fuse</b>	35A	20A
<b>Cigarette plug fuse</b>	15A	10A
<b>Low battery alarm</b>	10.5VDC +/- 0.5V	21VDC +/- 1V
<b>Low battery shuts down at</b>	10VDC +/- 0.5V	20VDC +/- 1V
<b>High battery shuts down at</b>	15,5VDC +/- 0.5V	30VDC +/- 1V

RoHS Compliant- 2002/95/EC -- E-mark approval – 72/245/EEC / 2006/96/EC  
 CE approval- EMC- EN55022/ EN55024 LVD- EN61558 :97 + A1 : 98